Sea Viking
Concepts and Capabilities Pathway
AWE 1

Update

19 Dec 2003

Purpose

- To provide CMC with a status report on the development of Sea Viking Concepts and Capabilities pathway leading to the Advanced Warfighting Experiment (AWE) in Oct or November 2004.

CMC Guidance…

- Assess the future sea based MEB in a Joint Forcible Entry context
- Assess future MEB capability sets
  - Concept for a future MEB
  - JFMCC / JTF construct
- Assess sea based command relationships & interfaces across all warfighting functions

Sea Viking 04 Common Purpose

- JROCM 199-03: resulting from PDM II OSD Joint Forcible Entry Operations (JFEO) Study
  - Develop a Joint Enabling Concept (JFCOM Lead: 31 Dec 03)
  - Provide a future capabilities assessment (J8 lead: 30 Sept 04)
  - JFEO Experiment Plan: (JFCOM lead: 31 Dec 04)

- Related efforts:
  - Navy / JFCOM Unified Course 04: Anti-access challenge
  - 2d Fleet / NWDC JFMCC wargame & TACMEMO development
  - Sea Trial, Silent Hammer 04: Battlespace Shaping for forcible entry

- JFCOM has identified Sea Viking as a key experimentation pathway for developing the JFEO Enabling Concept and Joint JFEO capabilities.

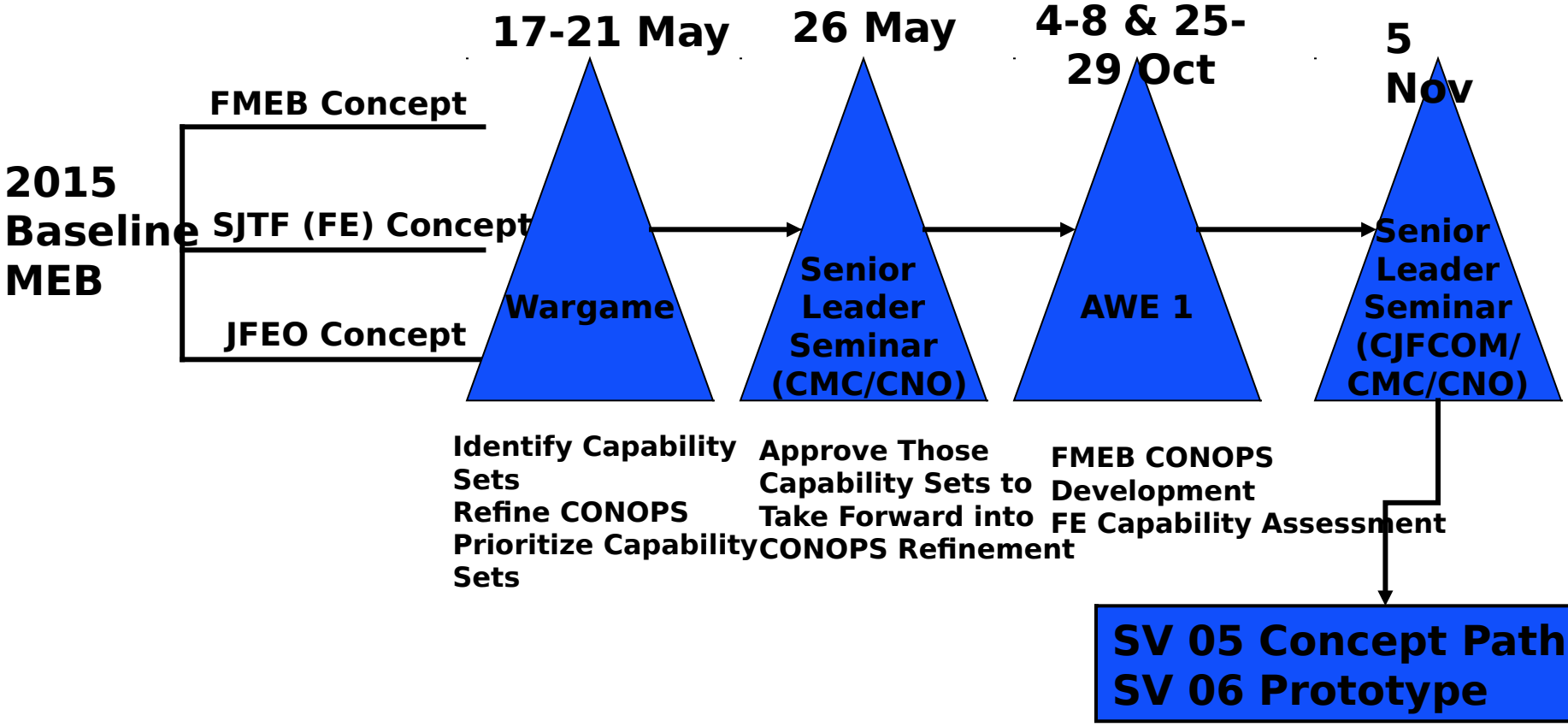
- Sea Viking is a Marine Corps led JFCOM co-sponsored pathway.

Concept and Capabilities Pathway
FY O4 Objectives

- Develop a future MEB Forcible Entry CONOPS
  - Develop future MEB capability sets, organizations, and equipment
  - Sea based C2: Naval/Joint command relationships, architectures, & interfaces
  - Examine the ability of a future MEB to provide a SJTF FE capability
  - Guide continued Sea Viking experimentation leading to
    - Refined capability sets
    - DOTMLPF implications for the future MEB T/O and T/E

- Support refinement of JFEO Concept & CONOPS
  - Assess required future Naval and Joint forcible entry capability sets

SV 04 Concepts & Capabilities Pathway



SV 04 Pathway

- **CONOPs development**
  - **JFEO (JFCOM led)**
  - **Future MEB (2 MEB / MCCDC led)**
  - **SJTF (FE) MEB as JTF nucleus (MCCDC led)**
  - **Capability modeling during CONOPS development**
- **Seminar Wargame: 17-21 May**
  - **3 concept & capability teams / Senior Panel**
  - **Refine JFEO CONOPs**
  - **Identify key JFEO / FMEB capability sets**
  - **Develop key Sea based C2 Joint / Naval issues**
- **Senior Leader Seminar: 26 May**
  - **CMC/CNO chair**
  - **Prioritize issues / capability sets**
  - **Guidance for CONOPs refinement**
  - **JFEO capabilities and concept**

Location for the May Game and the senior seminar will be DC metro area.

SV 04 Pathway

- **CONOPs Refinement**
  - **Incorporates Senior Leader Seminar Guidance into CONOPS**
    - **(2 MEB/MCCDC spt)**
  - **Capability modeling to assist COA development**
  - **Develop JFEO Enabling Concept "How"**

- **AWE I - CPX**
  - **JFCOM as JTF, JFMCC (2d Flt), II ME**
  - **MTWS**
  - **Other Service response cells**

Location for the AWE I will link simulation centers in JFCOM, MCCDC, and II MEF

- **Senior Leader Seminar**
  - **JFCOM/CMC/CNO**
  - **Shape refinement of JFEO CONOPs**
  - **Identify issues/capability sets to be explored during SV-5 and beyond**

Scenario

- Forces
  - JFCOM
  - II MEB
  - USN: NWDC w/2d Fleet as JFMCC
  - USA: TRADOC
  - USAF: XO/XP
  - SOCOM
  - UK
  - Australia

- Narrative Scenario Summary
- Joint Operations in the 2020 timeframe against a rogue commander controlling central Sumatra with significant regional anti-access capability and with potential access to non-nuclear WMD.
- Access and land basing limited by threat and political considerations
- Draft CJTF Blue OOB: 2(+)CSG's, 2 ESG's, 1 MPG, US Army, USAF, Australian ATF w Mech Bde, UK ESG w 3rd Cdo.

CONOPs Development

- Future MEB
  - MCCDC led
  - 2 MEB develops a Baseline COA that includes Seabased C2 / JFMCC relationships ands interfaces
  - MCCDC OPT develops capability set excursions focused on future MEB capability sets and JFMCC organizations and interfaces
- SJFT (FE)
  - MCCDC led
  - Focused on identifying future capability sets required to provide a SJTF (FE) with a MEB as a centerpiece
  - CONOPS describes the employment of complementary Joint capabilities in JFEO
  - Designed to provide the how of JFEO
- JFEO Concept
  - JFCOM tasked to write JFEO CONOPs
    - JFEO concept due Jan 04
    - Higher level discussion does not discuss the “how”

JFCOM has identified Sea Viking as a key experimentation pathway for developing the JFEO Enabling Concept and Joint JFEO capabilities

Concept / Capabilities Seminar Game

- **Assess required future Naval and Joint forcible entry capability sets**
- **Develop future MEB capability sets, organizations, and equipment**
- **Sea based C2: Naval/Joint command relationships, architectures, & interfaces**
- **Examine the ability of a future MEB to provide a SJTF FE capability**

FMEB

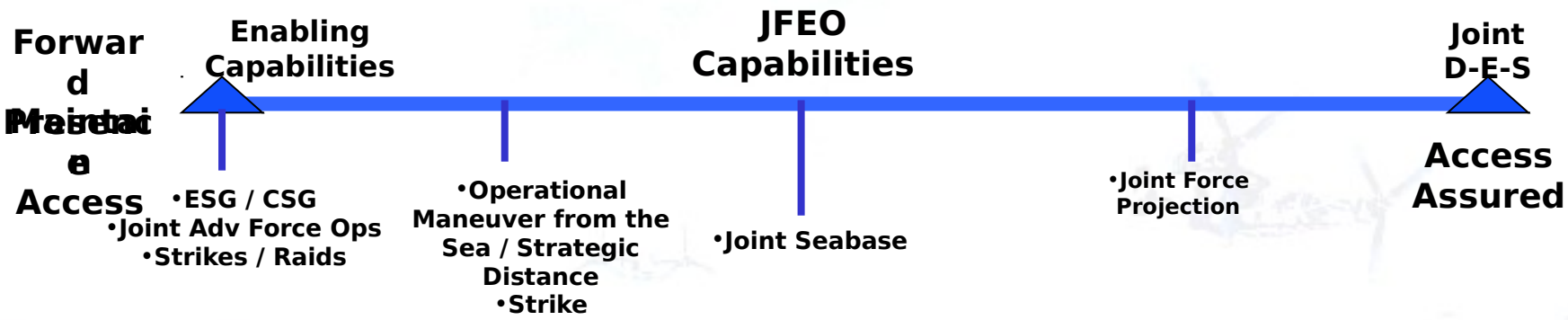
SJTF FE

JFEO

Functional Capabilities	Joint Advance Force	Joint Forcible Entry	Joint Early Entry	
C2				
Battlespace Awareness				
Force Application				
Protection				
Focused Logistics				

Sea Basing

AWE (Oct 4-8 & 25-29)



AWE Part A & B: JFEO Operations (JFCOM lead for objectives)
- C2 relationship JTF-SJFHQ-JFMCC
- Achieving decision superiority (CIE) & decisive effects (Joint Maneuver & Strike)
- JFEO Concept & Joint Sea basing concept & capability development
- Counter Anti access

AWE Part A: Battlespace Shaping (Joint Advance Force Ops)
(Navy lead for objectives)
- JFMCC Focus
- Assess JFMCC battlespace shaping capabilities
- Assess Command relationships

AWE Part B: JFEO
(Marine Corps lead for objectives)
- FMEB Focus
- Assess Seabased C2 iso JFEO
- Assess integration of joint capabilities for JFEO
- Assess Future MEB capability sets

AWE Part B: JFEO / Joint Early Entry
(Army lead for objectives)
- Assess C2 interface & Command relationships
- Explore support requirements from the Sea base
- Explore other Service roles in the Joint Sea base

USAF
USSOCOM

POA&M

Wargame CONOPS Published	January	MCWL		
MCCDC/Wargaming Meeting	8-Jan-04	MCWL	Breckenridge Hall	TBD
Baseline MEB Draft CONOPS	16-Jan-04	2d MEB	Camp LeJeune	
IPC for May Concept Refinement Wargame	21-22 Jan 04	MCWL	Breckenridge Hall Rm #14	TBD
Future MEB CONOPS completed	30-Jan-04	EFDC	MCCDC	
ONA MEETING W/JFCOM	January	MCWL	Breckenridge Hall	TBD
CONOPS Refinement	Jan-Feb-Apr		Various	
M&S models Ship-to-Shore Movement - 2015 MEB	March	M&S		S&A/EFDC
Scenario Requirements Input for Database Development	March	M&S		
MPC for May Concept Refinement Wargame	11-12 Mar 04	MCWL	Breckenridge Hall	TBD
Database Development	April (early)	M&S	Various	
AWE1 MPC	14-15 Apr 04	EFDC	Liversedge Hall	JFCOM, SOCOM, Service Reps
M&S Models Ship-to-Shore Movemen of the FMEB CONOPS	April	M&S		S&A/EFDC
Database Test (MTWS)	April (late)	M&S		
FPC for May Concept Refinement Wargame	21-22 Apr 04	MCWL	Breckenridge Hall	TBD
FMEB/Baseline MEB Finalized for Seminar Wargame	3-May-04	EFDC		
FMEB/Baseline MEB read-aheads Published	7-May-04	EFDC		
SV04 Concept Refinement Wargame	17-21 May 04	MCWL		
Quick Look SV04 Seminar	22-25 May 04	MCWL		
Senior Leaders Seminar	26-May-04	EFDC		
ID Equipment for JTASC	June (early)	M&S		
ID Personnel for JTASC	June (mid-late)	M&S		
T-1 Line Activation	July	M&S		
Full Up Test Event	August	M&S		
Battle Space Shaping Spiral	4-8 Oct 04	MCCDC	Camp LeJeune	
Advance Warfare Experiment 1	25-29 Oct 04	MCCDC	Various	
Senior Leaders Seminar	5-Nov-04	EFDC	TBD	

Status of CONOPs & M&S Support

Overview

- Status of CONOPS
- M&S/ S&A
  - How will M&S support CONOPS
  - M&S model for AWE
  - S&A model for CONOPS
- Navy Support and Objectives
- Joint Roles and Coordination

Status of CONOPS

- FMEB
  - 2d MEB Develops Baseline
  - CONOPS Team Capability Excursions/ ALT COAs
  - Second Fleet / TRADOC / SOCOM / AF support
- SJTF FE
  - First Draft in DEC
  - Second Fleet / TRADOC / SOCOM / AF / JFCOM / FCBs integrated
- JFEO
  - During Jan

M&S/S&A

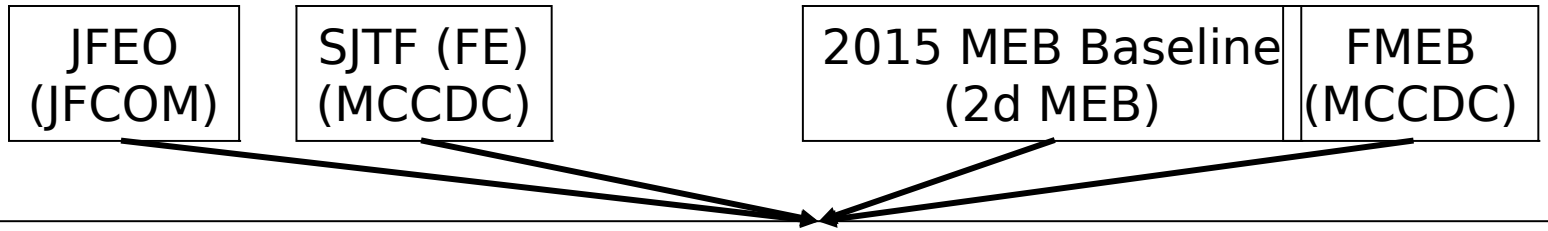
M&S Support to CONOPS Developoment

- **Purpose**
  - **Preparation for May 04 Seminar Wargame and Oct 04 CPX**
  - **Primarily intended for internal vetting at this time**
  - **Provides a greater degree of analytical rigor for COA development**

- **Mission Analysis (MAA Branch, S&A Div)**
  - **Model Ship to Shore Movement (how much, how fast)**
  - **Standardized database**
  - **Possible use of “Seaway” model**
  - **Model excursions from baseline COA**

- **Provide greater fidelity for COAs (feasible, suitable, supportable, meets Cmdr’s intent, etc.)**

M&S in Support of CONOPS Development_



At the May seminar wargame, each group briefs its CONOPS and role in forcible entry operations to a senior leadership panel.

- **Modeling and Simulation (provided by Studies and Analysis Division, EFDC) will model ship to shore movement of the 2015 Baseline MEB CONOPS during March 2004 IOT provide greater fidelity to the CONOPS (feasible, supportable, and meets commander's intent).**
- **As part of this iterative process, an FMEB capabilities excursions will be investigated to identify potential future capability sets.**
- **During the May seminar, the intent is to gain insight, identify/distill capabilities, and prioritize capability sets for further exploration in the October 2004 event.**
- **These capabilities can be modeled as part of CONOPs refinement during June-Aug.**

S&A Models in Support of CONOPS Development

- The following are proven models used in all current MAA M&S:
  - STOMM-V (STOM Model- Vertical)
  - MRS (Mission Reliability Simulation
  - STOMM-S (STOM Model- Surface)
  - VIC (Vector in Commander)
- The particular model used will depend on the specific questions to be answered.

SV04 TECOM M&S SUPPORT

TECOM will assist SV04 Planners by modeling and simulating anticipated effects of 2015 enabling capabilities to support the FMEB.

Models will Support SV04 by Validating/Evaluating:

- **Force List**
- **Equipment/Capabilities**

EXAMPLES OF SV04 MODELS:

- **Anti-Ship Missiles**
- **TLAM**
- **Extended Range Guided Munitions**
- **Land Attack Standard Missile**
- **NBC**
- **NAVAL LOGISTICS**
- **WX, SEA STATE, BATHYMETRY**
- **BLUE COMMS**

M&S Support

Draft POA&M

Month	Event/ Milestone
Feb/Mar	**Scenario Requirements Input for Database Development**
Apr	**Database Development**
Apr/May	**Database Test (MTWS)**
Jun	**ID Equipment for JTASC**
Jun	**ID Personnel for JTASC**
Jul	**T-1 line Activation Initiation**
Aug	**Full up test event (Two Tests)**
Oct	**AWE 1**

C4I M&S

- Mission: Assess the C4ISR architecture supporting SV-04 OMFTS CONOPS in order to evaluate performance parameters of planned surrogate and prototype systems to be used in SV-04 and beyond.
- Method*: Boeing designs and develops a prototype C4ISR architecture model utilizing Extend™ Simulation Software to define data and communications traffic levels across multiple integrated mission threads.
- Boeing to provide business development funding through Feb 04.

*Boeing Proprietary

C4I M&S

- Mission: Assess the architectures of different organizations within SV to assist in the assessment of future interoperability and integration issues. to m/s
- Method: NETWARS modeling and simulation starting with pieces of the SV architecture to compare and contrast the impact of different systems, architectures, and organizations. Endstate is to model the entire MCIAP - Marine Corps Integrated Architecture Picture.

Navy Support and Objectives

Navy Participation

- Second Fleet
  - Provides a JFMCC Staff
  - Partners with II MEF on the development of the MEB/ JFMCC Relationship
  - Aids in CONOPS Development
  - CNO Co-Chairs May SLS
  - Provide Names for Senior Mentors
  - Provide SMEs for May and Oct Events

Navy Objectives

- Refine JFMCC Seabased C2
- Explore the Relationship of the TASWC in support of JFEO
- Explore the use of Surface fires in support of OMFTS

Joint Roles and Coordination

Other Service Participation

- Army (TRADOC)
  - Provide 10 to 15 Players for May and Oct Events
  - Provide SMEs for May and Oct Events
  - Aid in CONOPS Development
  - OBJ TBD
- JFCOM
  - Provide SMEs for May and Oct Events
  - Produce JFEO Concept
  - Chair the Oct SLS

JFCOM Objectives

- Explore Combat Operations in a littoral anti-access environment from condition setting and planning through Forcible Entry Operations and into Major Combat Operations, in parallel with limited stability operations.

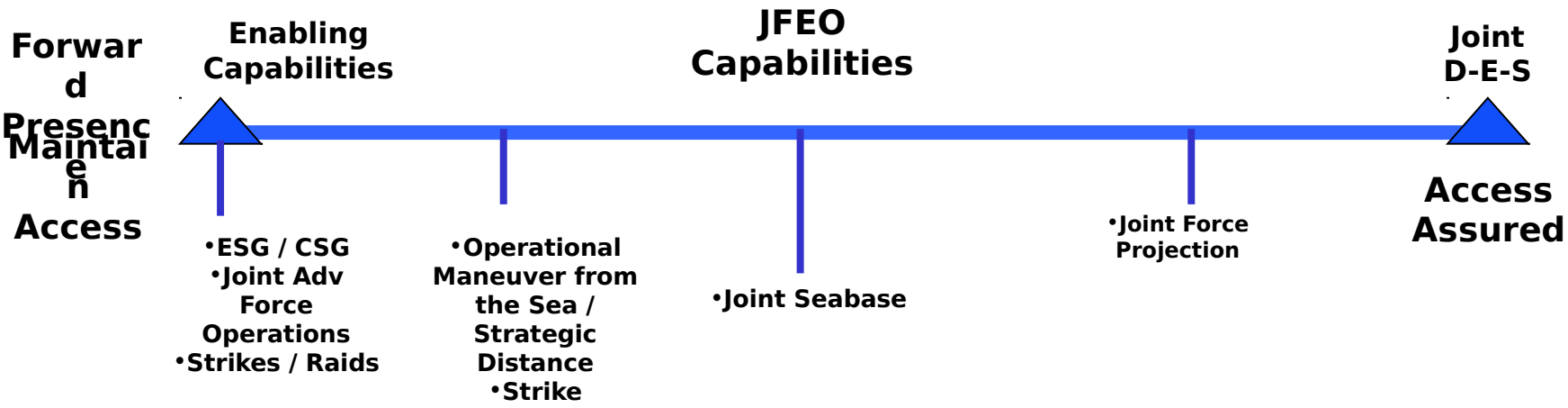
- Key Experimental Issues to be addressed:
  - Decision making in a CIE
  - Joint maneuver and strike
  - Force projection (D-E-S)
  - Counter Anti-Access

Other Service Participation

- Air Force
  - Provide Players for May and Oct Events
  - Provide SMEs for May and Oct Events
  - Objectives TBD
- SOCOM
  - Provide Players for May and Oct Events
  - Provide SMEs for May and Oct Events
  - Objectives TBD

Background?

Concept / Capabilities Seminar Game



Functional Capabilities	Joint Advance Force	Joint Forcible Entry	Joint Early Entry	
C2				
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Force Application				
Protection				
Focused Logistics				
SeaBasing				

FMEB

SJTF FE

JFEO

Functional Capabilities

Enabling Capability

Navy Questions

Objective	Pillar
Improve JFMCC-FMEB C2 integration into a CIE	**Strike**
Develop coordinated Navy and Marine Corps input regarding desired functions	**Basing**
Determine the C2 relationships and processes between the JFMCC and the FMEB	**Shield**
Determine the C2 relationships and processes between the JFMCC and the TASWC Concept	**Shield**
Evaluate the ability of the HSV to physically interface with amphibious platforms for transfer of personnel/equipment	**Basing**
Evaluate the ability of the HSV to serve as a SOF operating base and C4I platform	**Basing**
Develop the capability to provide the bulk of fire support for land maneuver forces in the littoral from sea based forces	**Strike**
Develop the capability to provide timely volumes of fire at a minimum range of 300NM from sea based forces	**Strike**
Develop the capability to support timely engagements throughout the extended battlespace.	**Strike**